

		Attorney Docket No. Serial No. 5634.074 08/442.383
	DISGLOSURE STATEMENT BY APPLICANT	1
		Applicant(s)
	CITATION FORM	John C. Harvey and James W. Cuddihy
II.		Filing Date Group Art Unit

## UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT.	NAME, A	CLASS/ FILING DATE:
INTUAL	27,810	DATE Nevember 20, 1973	Euehrle 04 10 1860	SUBCLASS DATE:
	33,189	September 3, 1861	Cougal	920/021
	2,418,127	April 1, 1947	Labin	178/44
· · · · · · · · · · · · · · · · · · ·	2,563,448	August 7, 1951	Aram	178/5.1
)	2,731,197	January 17, 1956	Farker et al.	235/60
	3,071,649	January 1, 1963	Gioodall	179/1.5
	3,107,274	October 15, 1963	Foschke	178/5.1
	3,133,986	May 19, 1964	Morris et al.	178/5.1
-	3,251,051	May 10, 1966	Harries	340/345
	3,470,309	September 30, 1969	Nyberg,:	178/5.1
	3,478,166	November 11, 1969	Reiter et al.	178/5.1
	3,526,843	September 1, 1970	Sanville	329/104
	3,546,684	December 8, 1970	Maxwell et al.	340/172.5
	3,639,686	February 1, 1972	V/alker et al.	178/5.8R
	3,649,749	March 14, 1972	Gibson	178/5.6
	3,651,261	March 21, 1972	Ciua <b>nella</b>	178/22
	3,666,888	May 30, 1972	Sekimoto	178/69.5 TV
	3,723,637	March 27, 1973	Fujio et al.	178/5.2R
	3,746,799	July 17, 1973	Centges	178/22
	3,755,624	August 28, 1973	Sekimoto	178/69.5 TV
	3,769,579	October 30, 1973	Harney	325/31
* <del>****</del>	3,773,979	November 20, 1973	Kirk, Jr. et al.	179/15 FD
	3,777,053	December 4, 1973	V/ittig et al.	178/5.1
	3,789,131	January 29, 1974	Hamey	178/5.1
	3,794,922	February 26, 1974	Cisborn et al.	325/53
	3,795,763	March 5, 1974	Ciolding et al.	178/5.6
	3,813,482	May 28, 1974	Blonder	178/5.1
	3,826,863	July 30, 1974	Johnson ;	178/5.1
	3,859,596	January 7, 1975	Jennery et. al.	325/31
	3,882,289	May 6, 1975	Walding et al.	200/11 D
	3,885,089	May 20, 1975	Callais et al.	178/5.1



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EXAMINER PATENT PATENT		Group 2600			
EXAMINER. INITIAL	PATENT NUMBER	PATIENT DATE	NAME	CLASS/-	FILING DATE:
	4,336,553	June 22, 1982	den Toonder et al.	380/206	May 14, 1980
	4,336,559	June 22, 1982	Koyarna et al.	260/73.05	November 9, 1978
	4,337,480	June 29, 1982	Bourassin et al.	348/552	February 8, 1980
	4,338,628	July 6, 1982	Payne et al.	380/213	December 19, 1979
	4,339,798	July 13, 1982	Hedges et al.	463/26	December 17, 1979
	4,340,903	July 20, 1982	Tamura	348/187	August 6, 1980
	4,343,042	August 3, 1982	Schrock et al.	725/116	June 9, 1979
	4,347,498	August 31, 1982	Lee et al.	340/825.02	November 21, 1979
	4,347,532	August 31, 1982	Korver	348/565	October 14, 1980
	4,353,088	October 5, 1982	den Toonder et al.	380/206	May 14, 1980
	4,354,201	October 12, 1982	Sechet et al.	380/228	June 11, 1980
	4,360,828	November 23, 1982	Briggs, Jr. et al	725/114	August 7, 1978
	4,361,851	November 30, 1982	Asip et al.	725/14	January 4, 1980
	4,361,877	November 30, 1982	Dyer et al.	702/176	February 5, 1980
	4,364,081	December 14, 1982	Hashimoto et al.	348/617	April 16, 1981
	4,365,110	December 21, 1982	Lee et al.	380/28	June 5, 1979
	4,367,548	January 4, 1983	Cotten, Jr. et al.	359/125	April 10, 1980
ļ	4,367,557	January 4, 1983	Stern et al.	725/149	May 25, 1979
	4,368,483	January 11, 1983	Liu	348/617	June 22, 1981
	4,368,486	January 11, 1983	Degoulet et al.	348/598	February 25, 1981
	4,374,437	February 15, 1983	Citta et al.	455/164.2	December 29, 1980
	4,375,579	March 1, 1983	Davida et al.	380/28	January 30, 1980
	4,375,651	March 1, 1983	Templin et al:	348/731	July 27, 1981
	4,378,470	March 29, 1983	Murto, el al.	379/93.05	March 25, 1981
	4,379,205	April 5, 1983	Wyner	380/28	June 22, 1979
	4,385,324	May 24, 1983	Shioda et al.	348/781	November 16, 1981
	4,388,643	June 14, 1983	Aminetzah	380/239	April 6, 1981
}	4,388,645	June 14, 1983	Cox et al.	348/468	April 13, 1981
	4,388,664	644 June 14, 1983	Ishman et al.	361/93.6	August 3, 1981
<del>  </del>	4,389,671	June 21, 1983	Posner et al.	380/235	September 29, 1980
) <del></del>	4,390,898	June 28, 1983	Bond et al.	380/241	March 23, 1981
	4,394,691	July 19, 1983	Amano et al.	348/734	July 30, 1981
	4,394,762	July 19, 1981	Nabeshima :	714/758	January 6, 1981
	4,395,757	July 26, 1983	Bienvenu et al.	709/104	April 14, 1981
-	4,396,915	August 2, 1983	Farnsworth et al.	340/870.03	March 31, 1980
	4,396,946	August 2, 1983	Bond	380/226	March 23, 1981
	4,396,947	August 2, 1983	Cheung	380/222	March 26, 1980
	4,398,216	August 9, 1983	Field et al.	380/238	September 19, 1980
	4,400,587	August 23, 1983	Taylor et al.	379/113	August 25, 1981
<b>-</b>	4,405,942	September 20, 1983	Block et al.	380/214	March 3, 1982
	4,410,917	October 18, 1983	Newdoll et al.	360/15	September 14, 1981
	4,413,339	November 1, 1983	Riggle et al.	714/765	July 24, 1981
	4,415,771	November 15, 1983	Martinez In	379/43	April 3, 1981
	4,422,093	December 20, 1983	Pargee, Jr.	725/115	January 27, 1983
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4.237,486 December 2, 1980 Shimp 348/475 November 9, 1978 4.245,246 January 13, 1981 Cheung 380/235 August 3, 1978 4.245,246 January 27, 1981 Jeffers et al. 463/29 April 12, 1978 4.250,489 February 10, 1981 Dudash et al. 340/825.02 Cctober 31, 1978 4.250,521 February 10, 1981 Wright 348/616 June 19, 1979 4.250,524 February 10, 1981 Tomizawa 380/232 February 22, 1979 4.251,691 February 14, 1981 Kakihara et al. 348/14.01 December 1, 1978 4.253,114 February 24, 1981 Tang et al. 380/212 September 28, 1978 4.253,117 February 24, 1981 Kirschner et al. 707/104 September 29, 1978 4.263,292 April 14, 1981 Bright et al. 713/164 March 27, 1978 4.264,325 April 28, 1981 Freeman et al. 725/138 August 13, 1981 4.275,411 June 23, 1981 Shutterly 380/235 April 25, 1979 4.266,243 May 5, 1981 Shutterly 380/236 April 19, 1978 4.266,243 May 5, 1981 Shutterly 380/236 April 19, 1978 4.275,411 June 23, 1981 Lippel 346/472 April 19, 1978 4.283,602 August 11, 1981 Gable et al. 340/825.43 June 7, 1979 4.286,287 August 18, 1981 Gable et al. 340/825.43 June 7, 1979 4.286,281 August 25, 1981 Suzuki 386/12 September 23, 1978 4.286,281 August 25, 1981 Suzuki 386/12 September 23, 1988 4.284,976 August 18, 1981 Gable et al. 340/825.43 June 7, 1979 4.286,281 August 25, 1981 Feurin 4, 1980 4.280,141 September 15, 1981 Full Free man 4, 1980 4.280,141 September 15, 1981 Full Free man 4, 1980 4.280,141 September 16, 1981 Full Free man 4, 1980 4.280,141 September 18, 1981 Full Free man 4, 1980 4.280,141 September 18, 1981 Full Free man 4, 1980 4.290,141 September 18, 1981 Full Free man 4, 1980 4.290,141 September 18, 1981 Full Free man 4, 1980 4.290,141 September 18, 1981 Full Free man 4, 1980 4.300,1910 December 8, 1981 Full Free man 4, 1980 4.300,1910 December 8, 1981 Full Free man 4, 1980 4.300,1910 December 8, 1981 Full Free man 4, 1980 4.300,1910 December 8, 1981 Full Free man 4, 1980 4.300,2771 November 24, 1981 Full Full Free man 4, 1980 4.300,2771 November 24, 1981 Full Full Free man 4, 1980 4.300,305 December 8, 1981 Full Full Free man 4, 19		RATENT DATE	Grot NAME		FILING DATE:
4.245,246 January 13, 1981 Cheung 380/235 August 3, 1978 4,271,108 January 27, 1981 Jeffers et al. 460/235 April 21, 1978 4,250,521 February 10, 1981 Dudash et al. 340/825,02 Cotober 31, 1978 4,250,521 February 10, 1981 Wright 348/616 June 19, 1979 4,250,524 February 10, 1981 Tomizawa 380/232 February 22, 1979 4,251,691 February 24, 1981 Tanq et al. 380/212 February 22, 1979 4,251,114 February 24, 1981 Tanq et al. 380/212 September 26, 1978 4,253,114 February 24, 1981 Kirschner et al. 707/104 September 29, 1978 4,263,1157 February 24, 1981 Kirschner et al. 707/104 September 29, 1978 4,263,242 May 5, 1981 Freeman et al. 725/138 March 27, 1978 4,264,925 April 28, 1981 Freeman et al. 725/138 August 13, 1979 4,275,411 June 23, 1981 Lippel 348/472 April 25, 1979 4,275,411 June 23, 1981 Cable et al. 380/216 April 28, 1986 4,284,976 August 18, 1981 Gable et al. 380/236 April 28, 1986 4,284,976 August 18, 1981 Gable et al. 380/241 September 28, 1978 4,286,281 August 25, 1981 Suzuki 386/12 September 28, 1979 4,287,592 September 1, 1981 Paulish et al. 370/403 May 23, 1979 4,288,809 September 8, 1981 Yabe 348/468 May 21, 1980 4,290,141 September 24, 1981 Yabe 348/468 May 21, 1980 4,290,141 September 24, 1981 August 25, 1979 4,295,223 October 13, 1981 Finderson et al. 1725/24 July 2, 1979 4,304,390 December 8, 1981 August 25, 1981 August 26, 1982 A	4,237,4	84 December 2, 1980			
4,247,106	4,237,4	86 December 2, 1980	Shimp	348/475	November 9, 1978
4,250,489   February 10, 1981   Dudash et al.   340/825,02   October 31, 1978	4,245,2	46 January 13, 1981	Cheung	380/235	August 3, 1978
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4,250,524   February 10, 1981   Tomizewa   380/232   February 22, 1979	4,250,4	89 February 10, 1981	Dudash et al.	340/825.02	October 31, 1978
4,251,691   February 17, 1981   Kakihara et al.   348/14.01   December 1, 1976	4,250,5	21 February 10, 1981	Wright	348/616	June 19, 1979
4,253,114   February 24, 1981   Tang et al.   360/212   September 26, 1976     4,253,157   February 24, 1981   Kirschner et al.   707/104   September 29, 1978     4,262,329   April 14, 1981   Bright et al.   713/164   March 27, 1978     4,266,243   May 5, 1981   Freeman et al.   725/138   August 13, 1979     4,266,243   May 5, 1981   Shutterly   380/236   April 25, 1979     4,226,243   May 5, 1981   Shutterly   380/236   April 25, 1979     4,226,2411   June 23, 1981   Lippel   348/477   April 19, 1978     4,283,602   August 11, 1981   Adams et al.   380/41   September 23, 1968     4,284,976   August 18, 1981   Gable et al.   340/825, 43   June 7, 1979     4,286,281   August 25, 1981   Suzuki   386/12   September 26, 1979     4,286,281   August 25, 1981   Paulish et al.   370/403   May 23, 1979     4,288,809   September 15, 1981   Paulish et al.   370/403   May 23, 1979     4,289,409   September 15, 1981   Anderson et al.   725/24   July 2, 1979     4,290,141   September 15, 1981   Anderson et al.   725/24   July 2, 1979     4,295,223   October 13, 1981   Anderson et al.   725/27   April 25, 1979     4,302,771   November 24, 1981   Gargini   726/119   July 23, 1980     4,304,990   December 8, 1981   Atalia   380/45   February 4, 1980     4,306,305   December 15, 1981   Lumley   713/190   February 4, 1980     4,306,305   December 15, 1981   Doi et al.   714/755   October 19, 1979     4,310,854   January 12, 1982   Barton et al.   746/755   August 28, 1979     4,312,016   January 19, 1982   Glab et al.   348/484   August 28, 1979     4,314,367   February 2, 1982   Barton et al.   775/52   January 71, 1980     4,314,367   February 16, 1982   Feistel   380/23   April 25, 1979     4,314,367   February 16, 1982   Feistel   380/23   April 25, 1979     4,314,367   February 2, 1982   Barton et al.   775/53   January 71, 1980     4,322,675   March 3, 1982   Seatch et al.   380/236   April 25, 1979     4,316,055   February 16, 1982   Feistel   380/236   April 25, 1979     4,325,078   April 6, 1982   Seatch et al.   380/2	4,250,5	24 February 10, 1981	Tomizawa	380/232	February 22, 1979
4,253,157   February 24, 1981   Kirschner et al.   707/104   September 29, 1978	4,251,6	91 February 17, 1981	Kakihara et al.	348/14.01	December 1, 1978
4,262,329   April 14, 1981   Bright et al.   713/164   March 27, 1978	4,253,1	14 February 24, 1981	Tang et al.	380/212	<u>September 26, 1978</u>
4,264,925   April 28, 1981   Freeman et al.   725/138   August 13, 1979     4,266,243   May 5, 1981   Shutterly   380/236   April 25, 1979     4,275,411   June 23, 1981   Lippel   348/472   April 19, 1978     4,283,602   August 11, 1981   Adams et al.   380/41   September 23, 1968     4,284,976   August 25, 1981   Suzuki   386/12   September 23, 1968     4,286,281   August 25, 1981   Suzuki   386/12   September 26, 1979     4,287,592   September 1, 1981   Paulish et al.   370/403   May 23, 1979     4,288,809   September 8, 1981   Yabe   348/468   May 21, 1980     4,290,141   September 15, 1981   Fanderson et al.   725/24   July 2, 1979     4,295,223   October 13, 1981   Shutterly   455/72   April 25, 1979     4,302,771   November 24, 1981   September 3, 1981   Adams 4, 205, 131   December 8, 1981   September 3, 1981   Adams 4, 205, 131   December 8, 1981   Adams 4, 205, 131   December 8, 1981   Adams 4, 205, 131   December 8, 1981   Adams 4, 205, 205	4,253,1	57 February 24, 1981	Kirschner et al.	707/104	September 29, 1978
4,266,243   May 5, 1981   Shutterly   380/236   April 25, 1979     4,275,411   June 23, 1981   Lippel   348/472   April 19, 1978     4,283,602   August 11, 1981   Adams et al.   380/41   September 23, 1968     4,284,976   August 18, 1981   Gable et al.   340/825.43   June 7, 1979     4,286,281   August 25, 1981   Suzuki   386/12   September 26, 1979     4,287,592   September 1, 1981   Paulish et al.   370/403   May 23, 1979     4,288,809   September 8, 1981   Yabe   348/468   May 21, 1980     4,290,141   September 15, 1981   Andersion et al.   725/24   July 2, 1979     4,295,223   October 13, 1981   Andersion et al.   725/24   July 2, 1979     4,302,771   November 24, 1981   Acardini   725/71   July 23, 1980     4,304,990   December 8, 1981   Andersion et al.   725/71   July 23, 1980     4,304,990   December 8, 1981   Andersion et al.   725/71   July 23, 1980     4,306,289   December 8, 1981   Andersion et al.   714/755   October 13, 1980     4,306,305   December 15, 1981   Andersion et al.   714/755   October 19, 1979     4,307,446   December 22, 1981   Andersion et al.   714/755   October 19, 1979     4,310,654   January 12, 1982   Baer   348/484   August 28, 1979     4,311,312   January 26, 1982   Baer   348/484   August 28, 1979     4,313,132   January 26, 1982   Baer   348/484   August 28, 1979     4,314,367   February 2, 1982   Baer   348/484   August 28, 1979     4,316,055   February 16, 1982   Baer   348/706   February 1, 1980     4,316,245   February 16, 1982   Baer   348/706   February 1, 1980     4,316,245   February 16, 1982   Baer   348/484   August 28, 1979     4,317,215   February 2, 1982   Baer   348/484   August 28, 1979     4,313,322   January 15, 1982   Baer   348/484   August 28, 1979     4,314,367   February 2, 1982   Baer   348/484   August 28, 1979     4,316,245   February 6, 1982   Feistel   380/37   December 30, 1976     4,316,245   February 2, 1982   Baer   348/486   August 17, 1980     4,329,675   March 21, 1982   Seeki et al.   380/236   April 25, 1979     4,329,675   March 21, 198	4,262,3	29 April 14, 1981	Bright et al.	713/164	March 27, 1978
4,275,411	4,264,9	25 April 28, 1981	Freeman et al.	725/138	August 13, 1979
4,283,602   August 11, 1981   Adams et al.   380/41   September 23, 1968     4,284,976   August 18, 1981   Gable et al.   340/825,43   June 7, 1979     4,286,281   August 25, 1981   Suzuki   386/12   September 26, 1979     4,287,592   September 1, 1981   Paulish et al.   370/403   May 23, 1979     4,288,809   September 8, 1981   Yabe   348/468   May 21, 1980     4,290,141   September 15, 1981   Yabe   348/468   May 21, 1980     4,292,223   October 13, 1981   Yabe	4,266,2	43 May 5, 1981	Shutterly	380/236	April 25, 1979
4,284,976   August 18, 1981   Gable et al.   340/825.43   June 7, 1979     4,286,281   August 25, 1981   Suzuki   386/12   September 26, 1979     4,287,592   September 1, 1981   Paulish et al.   370/403   May 23, 1979     4,288,809   September 8, 1981   Yabe   348/468   May 21, 1980     4,290,141   September 15, 1981   Anderson et al.   725/24   July 2, 1979     4,295,223   October 13, 1981   Anderson et al.   725/19   July 23, 1980     4,302,771   November 24, 1981   Adalia   380/45   February 4, 1980     4,304,990   December 8, 1981   Adalia   380/45   February 4, 1980     4,305,131   December 8, 1981   Adalia   380/45   February 4, 1980     4,306,289   December 15, 1981   Lumley   713/190   February 4, 1980     4,306,305   December 15, 1981   Doi et al.   714/755   October 19, 1979     4,307,446   December 22, 1981   Barton et al.   710/131   May 2, 1979     4,310,854   January 12, 1982   Baer   348/484   August 28, 1979     4,312,016   January 19, 1982   Glaab et al.   348/706   February 2, 1979     4,313,132   January 26, 1982   Doles et al.   725/26   October 31, 1979     4,316,055   February 1, 1982   Bakka et al.   370/422   January 17, 1980     4,316,245   February 16, 1982   Eest   713/190   December 30, 1976     4,316,245   February 16, 1982   Shutterly   380/236   April 25, 1979     4,317,215   February 23, 1982   Shutterly   380/236   April 25, 1979     4,319,079   March 9, 1982   Shutterly   380/236   April 25, 1979     4,323,921   April 6, 1982   Sueliment al.   380/242   March 21, 1980     4,323,922   O4   January 6, 1982   Guillou   705/53   January 17, 1980     4,323,921   April 6, 1982   Guillou   705/53   September 17, 1978     4,329,675   May 11, 1982   Wan Hulle   725/32   September 23, 1980     4,329,675   May 11, 1982   Monteath et al.   380/236   April 25, 1979     4,330,794   May 18, 1982   Shetwood   380/206   February 25, 1980     4,333,980   June 1, 1982   Reynolds et al.   370/259   May 30, 1980	4,275,4	11 June 23, 1981	Lippel	348/472	April 19, 1978
4,286,281   August 25, 1981   Suzuki 386/12   September 26, 1979     4,287,592   September 1, 1981   Paulish et al. 370/403   May 23, 1979     4,288,809   September 8, 1981   Yabe 348/468   May 21, 1980     4,290,141   September 15, 1981   Anderson et al. 725/24   July 2, 1979     4,295,223   October 13, 1981   Anderson et al. 725/19   July 23, 1980     4,302,771   November 24, 1981   Adalla 380/45   February 4, 1980     4,304,990   December 8, 1981   Adalla 380/45   February 4, 1980     4,305,131   December 8, 1981   Adalla 380/45   February 4, 1980     4,306,305   December 15, 1981   Lumley   713/190   February 4, 1980     4,306,305   December 15, 1981   Doi et al. 714/755   October 19, 1979     4,307,446   December 22, 1981   Barton et al. 710/131   May 2, 1979     4,310,854   January 12, 1982   Baer 348/484   August 28, 1979     4,313,132   January 19, 1982   Glaab et al. 348/706   February 2, 1979     4,314,367   February 16, 1982   Bakk et al. 370/422   January 17, 1980     4,316,055   February 16, 1982   Feistel 380/37   December 30, 1976     4,316,245   February 16, 1982   Feistel 380/37   December 7, 1978     4,316,245   February 16, 1982   Feistel 380/37   December 7, 1978     4,317,215   February 23, 1982   Tabate et al. 725/131   September 11, 1979     4,318,125   March 2, 1982   Shutteriy 380/236   April 25, 1979     4,319,079   March 9, 1982   Seeki et al. 380/236   April 25, 1979     4,329,694   May 11, 1982   Seeki et al. 380/230   November 20, 1979     4,329,694   May 11, 1982   Monteath et al. 380/206   February 2, 1980     4,329,694   May 11, 1982   Monteath et al. 345/180   January 15, 1980     4,330,794   May 18, 1982   Monteath et al. 345/180   January 15, 1980     4,330,794   May 18, 1982   Monteath et al. 345/180   January 15, 1980     4,330,794   May 18, 1982   Monteath et al. 370/259   May 30, 1980     4,330,794   May 18, 1982   Monteath et al. 370/259   May 30, 1980     4,330,794   May 18, 1982   Reynolds et al. 370/259   May 30, 1980	4,283,6	02 August 11, 1981	Adams et al.	380/41	September 23, 1968
4,287,592   September 1, 1981   Paulish et al.   370/403   May 23, 1979     4,288,809   September 8, 1981   Yabe   348/468   May 21, 1980     4,290,141   September 15, 1981   Anderson et al.   725/24   July 2, 1979     4,295,223   October 13, 1981   Shutterly   455/72   April 25, 1979     4,302,771   November 24, 1981   Gargini   725/119   July 23, 1980     4,304,990   December 8, 1981   Askida   380/45   February 4, 1980     4,305,131   December 8, 1981   Askida   345/327   March 31, 1980     4,306,289   December 15, 1981   Best   Askida   713/190   February 4, 1980     4,307,446   December 12, 1981   Best   Askida   710/131   May 2, 1979     4,307,446   December 22, 1981   Best   Askida   August 28, 1979     4,310,854   January 12, 1982   Best   348/484   August 28, 1979     4,312,016   January 19, 1982   Glash et al.   348/706   February 2, 1979     4,313,132   January 26, 1982   Doles et al.   348/706   February 2, 1979     4,314,367   February 16, 1982   Best   Askida   A	4,284,9	76 August 18, 1981	Gable et al.	340/825.43	June 7, 1979
4,288,809         September 8, 1981         Yabe         348/468         May 21, 1980           4,290,141         September 15, 1981         I Anderson et al.         725/24         July 2, 1979           4,295,223         October 13, 1981         J Shutterly I Shutterly I Shutterly I Shutterly I As5/72         April 25, 1979           4,302,771         November 24, 1981         J Gargini         725/119         July 23, 1980           4,304,990         December 8, 1981         J Atalla         380/45         February 4, 1980           4,305,131         December 8, 1981         J Elest         J 345/327         March 31, 1980           4,306,289         December 15, 1981         L Lumley         713/190         February 4, 1980           4,306,305         December 15, 1981         Doi et al.         714/755         October 19, 1979           4,310,854         January 12, 1982         Baer         348/484         August 26, 1979           4,312,016         January 12, 1982         Baer         348/484         August 26, 1979           4,313,132         January 26, 1982         Doles et al.         725/26         October 31, 1979           4,314,367         February 16, 1982         Bakka et al.         370/422         January 17, 1980           4,316,255         <	4,286,2	81 August 25, 1981	Suzuki	386/12	September 26, 1979
4,290,141   September 15, 1981   Anderson et al.   725/24   July 2, 1979	4,287,5	92 September 1, 1981	Paulish et al.	370/403	May 23, 1979
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4,302,771         November 24, 1981         Gargini         725/119         July 23, 1980           4,304,990         December 8, 1981         Atalla         380/45         February 4, 1980           4,305,131         December 8, 1981         345/327         March 31, 1980           4,306,289         December 15, 1981         Lumley         713/190         February 4, 1980           4,306,305         December 15, 1981         Doi et al.         714/755         October 19, 1979           4,307,446         December 22, 1981         Barton et al.         710/131         May 2, 1979           4,310,854         January 12, 1982         Baer         348/484         August 28, 1979           4,313,132         January 19, 1982         Bakka et al.         725/26         October 31, 1979           4,314,367         February 2, 1982         Bakka et al.         370/422         January 17, 1980           4,316,245         February 16, 1982         Feistel         380/37         December 30, 1976           4,317,215         February 23, 1982         Luvlet al.         709/106         December 7, 1978           4,317,215         February 23, 1982         Tabata et al.         725/131         September 11, 1979           4,319,079         March 2, 1982         Shu	4,290,1	41 September 15, 1981	Anderson et al.	725/24	July 2, 1979
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4,310,854       January 12, 1982       Baer       348/484       August 28, 1979         4,312,016       January 19, 1982       Glaab et al.       348/706       February 2, 1979         4,313,132       January 26, 1982       Doles et al.       725/26       October 31, 1979         4,314,367       February 2, 1982       Bakka et al.       370/422       January 17, 1980         4,316,055       February 16, 1982       Feistel       380/37       December 30, 1976         4,316,245       February 16, 1982       Luulet al.       709/106       December 7, 1978         4,317,215       February 23, 1982       Tabata et al.       725/131       September 11, 1979         4,318,125       March 2, 1982       Shutterly       380/236       April 25, 1979         4,319,079       March 9, 1982       Eest       713/190       January 17, 1980         4,322,745       March 30, 1982       Saeki et al.       380/242       March 21, 1980         4,323,921       April 6, 1982       Guillou       705/53       January 23, 1980         4,329,675       May 11, 1982       Van Hulle       725/32       September 20, 1979         4,329,684       May 11, 1982       Monteath et al.       345/180       January 15, 1980 <t< td=""><td>4,306,3</td><td>05 December 15, 1981</td><td>Doi et al.</td><td>714/755</td><td>October 19, 1979</td></t<>	4,306,3	05 December 15, 1981	Doi et al.	714/755	October 19, 1979
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4,313,132       January 26, 1982       Doles et al.       725/26       October 31, 1979         4,314,367       February 2, 1982       Bakka et al.       370/422       January 17, 1980         4,316,055       February 16, 1982       Feistel       380/37       December 30, 1976         4,316,245       February 16, 1982       Luulet al.       709/106       December 7, 1978         4,317,215       February 23, 1982       Tabata et al.       725/131       September 11, 1979         4,318,125       March 2, 1982       Shutterly       380/236       April 25, 1979         4,319,079       March 9, 1982       Best       713/190       January 17, 1980         4,322,745       March 30, 1982       Saeki et al.       380/242       March 21, 1980         4,323,921       April 6, 1982       Guillou       705/53       January 23, 1980         4,323,922       OH January 6, 1982       de Toonder et al.       380/230       November 20, 1979         4,329,675       May 11, 1982       Van Hulle       725/32       September 23, 1980         4,330,794       May 18, 1982       Sherwood       380/206       February 25, 1980         4,332,980       June 1, 1982       Reynolds et al.       370/259       May 30, 1980	4,310,8	54 January 12, 1982	Baer' ∠ .	348/484	August 28, 1979
4,314,367       February 2, 1982       Bakka et al.       370/422       January 17, 1980         4,316,055       February 16, 1982       Feistel       380/37       December 30, 1976         4,316,245       February 16, 1982       Luulet al.       709/106       December 7, 1978         4,317,215       February 23, 1982       Tabata et al.       725/131       September 11, 1979         4,318,125       March 2, 1982       Shutterly       380/236       April 25, 1979         4,319,079       March 9, 1982       Best       713/190       January 17, 1980         4,322,745       March 30, 1982       Saeki et al.       380/242       March 21, 1980         4,323,921       April 6, 1982       Guillou       705/53       January 23, 1980         4,323,922       OH January 6, 1982       de Toonder et al.       380/230       November 20, 1979         4,329,675       May 11, 1982       Seatom et al.       380/230       November 20, 1979         4,329,684       May 11, 1982       Monteath et al.       345/180       January 15, 1980         4,330,794       May 18, 1982       Sherwood       380/206       February 25, 1980         4,332,980       June 1, 1982       Reynolds et al.       370/259       May 30, 1980 <td></td> <td></td> <td></td> <td>348/706</td> <td>February 2, 1979</td>				348/706	February 2, 1979
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4,317,215       February 23, 1982       Tabata et al.       725/131       September 11, 1979         4,318,125       March 2, 1982       Shutterly       380/236       April 25, 1979         4,319,079       March 9, 1982       Best       713/190       January 17, 1980         4,322,745       March 30, 1982       Saeki et al.       380/242       March 21, 1980         4,323,921       April 6, 1982       Guillou       705/53       January 23, 1980         4,323,922       OH January 6, 1982       de Toonder et al.       380/226       December 17, 1979         4,325,078       April 13, 1982       Seatom et al.       380/230       November 20, 1979         4,329,675       May 11, 1982       Van Hulle       725/32       September 23, 1980         4,329,684       May 11, 1982       Monteath et al.       345/180       January 15, 1980         4,330,794       May 18, 1982       Sherwood       380/206       February 25, 1980         4,332,980       June 1, 1982       Reynolds et al.       370/259       May 30, 1980				380/37	December 30, 1976
4,318,125       March 2, 1982       Shutterly       380/236       April 25, 1979         4,319,079       March 9, 1982       Best       713/190       January 17, 1980         4,322,745       March 30, 1982       Saeki et al.       380/242       March 21, 1980         4,323,921       April 6, 1982       Guillou       705/53       January 23, 1980         4,323,922       O4       January 6, 1982       de Toonder et al.       380/226       December 17, 1979         4,325,078       April 13, 1982       Seatom et al.       380/230       November 20, 1979         4,329,675       May 11, 1982       Van Hulle       725/32       September 23, 1980         4,329,684       May 11, 1982       Monteath et al.       345/180       January 15, 1980         4,330,794       May 18, 1982       Sherwood       380/206       February 25, 1980         4,332,980       June 1, 1982       Reynolds et al.       370/259       May 30, 1980				709/106	December 7, 1978
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INTRIAC	3,729,581	April 24, 1973	Anderson	348/640	September 3, 1973
	3,729,381	May 1, 1973	Clark	380/36	December 15, 1969
	3,736,369	May 29, 1973	Vogelman et al.	380/228	March 13, 1972
	3,744,043	July 3, 1973	Walden et al.	340/870.7	June 1, 1971
	3,746,780	July 17, 1973	Stetten et al.	386/95	February 25, 1971
	3,749,845	July 31, 1973	Fraser	370/433	August 27, 1971
	3,754,211	August 21, 1973	Rocher et al.	714/749	December 30, 1971
	3,755,624	August 28, 1973	Sekimoto :	348/495	April 22, 1971
	3,757,225	September 4, 1973	Ukicki	725/1	March 16, 1972
	3,761,888	September 25, 1973	Flynn	710/18	August 3, 1972
	3,773,977	November 20, 1973	Guanella	380/36	June 21, 1971
	3,777,053	December 4, 1973	Wittig et al.	380/228	May 16, 1972
	3,789,137	January 29, 1974	Newell "	386/98	April 7, 1972
	3,798,359	March 19, 1974	Feistel	380/37	June 30, 1971
	3,798,610	March 19, 1974	Bliss et al	709/236	December 20, 1972
	3,806,814	April 23, 1974	Forbes	725/119	April 26, 1972
	3,819,852	June 24, 1974	Wolf	348/478	August 29, 1972
	3,824,332	July 16, 1974	Horowitz	380/222	February 18, 1972
	3,824,467	July 16, 1974	French	380/35	December 1, 1972
	3,825,893	July 23, 1974	Bossen et al.	714/757	May 29, 1973
	3,833,757	September 3, 1974	Kirk, Jr. et al.	725/144	April 10, 1972
	3,835,387	September 10, 1974	Rookés et al.	725/151	November 15, 1972
	3,842,196	October 15, 1974	Loughlin.	348/486	November 12, 1973
	3,845,391	October 29, 1974	Crosby	455/39	July 15, 1971
	3,859,458	January 7, 1975	Takezawa et al.	348/24	August 30, 1973
	3,882,392	May 6, 1975	Harney	725/79	January 29, 1973
$\mathcal{L}$	3,890,461	June 17, 1975	Vogelman et al.	380/228	March 27, 1973
	3,891,792	June 24, 1975	Kimura	348/622	June 25, 1974
1	3,893,031	July 1, 1975	Majeau et al.	380/274	November 8, 1972
110	3,894,176	July 8, <del>1995</del> 1915	Mellon	380/230	178/5.1
77	3,899,633	August 12, 1975	Sorenson et al.	380/207	May 12, 1972
0+	3,909,512	September 30, 1975	.Omori et al.	386/75	October 5, 1973
- #1 - am	3,911,216	October 7, 1975	Bartek et al.	380/46	December 17, 1973
	3,911,419	October 7, 1975 .	Bates et al.	345/162	November 23, 1973
	3,914,534	October 21, 1975	Forbes	380/220	October 29, 1973
	3,916,091	October 28, 1975	Kirk, Jr. et al.	380/242	January 31, 1973
	3,919,462	November 11, 1975	Hartung et al.	380/235	August 15, 1973
	3,921,151	November 18, 1975	Guanella	380/36	July 12, 1973
	3,922,482	November 25, 1975	Gabriel et al	725/31	August 20, 1971
	3,934,079	January 20, 1976	Barnhart - 1	725/131	October 26, 1973
=1=====	3,936,593	February 3, 1976	Aaronson et al.	380/219	August 5, 1974
	3,936,594	February 3, 1976	Schubin et al:	380/238	August 5, 1974
	3,944,931	March 16, 1976	Usami et al. 🙏	455/192.2	November 14, 1974
	3,949,313	April 6, 1976	Tamada et al.	341/50	May 28, 1974
	3,956,615	May 11, 1976	Anderson et al.	705/72	June 25, 1974

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T	4,494,142	January 15, 1985	Mistry	358/118	!
	4,496,975	January 29, 1985	Noirel	358/147	
	4,504,831	March 12, 1985	Jahr et al.	340/870.03	
	4,506,387	March 9, 1985	Walter	455/612	Ţ,
	4,510,623	April 9, 1985	Bonneau et al.	455/181	į
	4,528,589	July 9, 1985	Block et al.	358/122	. !
	4,531,020	July 23, 1985	Wechselberger et al.	178/22.03	
	4,531,021	July 23, 1985	Bluestein et al.	178/22.03	
	4,540,849	September 10, 1985	Oliver	179/2: AM	! !
	4,543,616	September 24, 1985	Brooks	358/335	
	4,547,804	October 15, 1985	Greenberg	358/142	1 ;
	4,554,584	November 19, 1985	Elam et al.	358/165	. :
	4,558,464	December 10, 1985	O'Brien, Jr.	455/4	
	4,563,702	January 7, 1986	Heller et al.	358/119	1
	4,566,030	January 21, 1986	Nickerson et al.	358/84	1 1
	4,570,930	February 18, 1986	Matheson	273/1 E	
	4,578,536	March 25, 1986	Oliver et al.	179/2 AM	
	4,578,718	March 25, 1986	Parker et al.	360/10.3	4
	4,592,546	June 3, 1986	Fascenda et al.	273/1 E	
	4,592,546	June 3, 1986	Fascenda et al.	273/1 E	
	4,594,609	July 10, 1986 06	Romao et al.	358/119	
	4,595,952	June 17, 1986	Filliman	358/47	
	4,600,918	July 15, 1986	Belisomi et al.	340/711	1
	4,600,921	July 15, 1986	Thomas	340/825.31	
	4,605,964	August 12, 1986	Chard	358/147	
	4,611,227	September 9, 1986	Brockhurst et al.	358/147	
	4,613,901	September 23, 1986	Gilhousen et al.	358/122	
	4,621,259	November 4, 1986	Schepers et al.	340/707	'
	4,621,285	November 4, 1986	Schilling et al.	358/120	
	4,623,920	November 18, 1986	Dufresne et al.	358/122	
	4,626,892	December 2, 1986	Nortrup et al.	358/21 R	
	4,633,297	December 30, -1996	Skerlos et al. 1986	358/22	
	4,636,858	January 13, 1987	Hague et al.	358/147	
	4,638,357	January 20, 1987	Heimbach	358/121	
	4,639,779	January 27, 1987	Greenberg	358/142	
	4,646,145	February 24, 1987	Percy et al.	358/84	
	4,649,533	March 10, 1987	Chorley et al.	370/58	
	4,658,290	April 14, 1987	McKenna	358/84	
	4,677,685	June 30, 1987	Kurisu	455/4	<del></del>
	4,694,490	September 15, 1987	Harvey et al.	380/20	,
	4,704,725	November 3, 1987	Harvey et al.	380/48	
	4,706,121	November 10, 1987	Young	358/142	
	4,710,919	December 1, 1987	Oliver et al.	370/96	
	4,710,955	December 1, 1987	Kauffman	380/10	

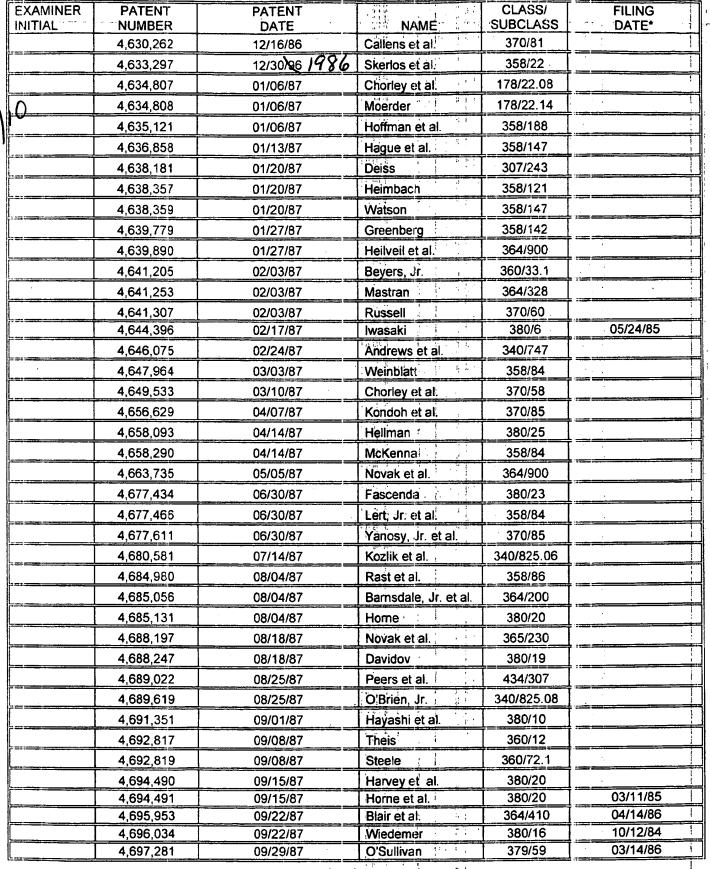
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4,124,887	November 7, 1978	Johnson et al.	364/107	
4,126,762	November 21, 1978	Martin et al.	179/2A	
4,135,213	January 16, 1979	Wintfeld et al.	358/142	
4,142,156	February 27, 1979	Freund	325/309	
4,145,717	March 20, 1979	Guif et al.	358/121	1
4,148,066	April 3, 1979	Saylor	358/127	
4,156,253	May 22, 1979	Steudel	358/11	
4,156,931	May 29, 1979	Adelman et al.	364/900	
4,163,252	July 31, 1979	Mistry et al.	358/118	
4,180,709	December 25, 1979	Cosgrove et al.	179/2 AM	
4,199,656	April 22, 1980	Saylor	178/66.1	
4,199,781	April 22, 1980	Doumit	358/83	
4,199,809	April 22, 1980	Pasahow et al.	364/200	,
4,207,524	June 10, 1980	Purchase	375/22	
4,214,273	July 22, 1980	Brown	358/188	
4,215,366/ 31,735	November 13, 1984 01/29/1980	Davidson	358/124	
4,216,497	August 5, 1980	Ishman et al.	358/84	
4,222,068	September 9, 1980	Thompson !	358/120	
4,225,884	September 30, 1980	Block et al.	358/122	
4,245,246	January 13, 1981	Cheung	358/124:	- 1
4,246,611	January 20, 1981	Davies	358/194	
4,247,947	January 27, 1981	Miyamoto	455/38	
4,250,521	February 10, 1981	Wright	358/8	
4,258,386	March 24, 1981	Cheung	358/84	
4,266,243	May 5, 1981	Shutterly	358/121	<u>;</u>
4,272,784	June 9, 1981	Saito et al.	358/127	
4,273,962	June 16, 1981	Wolfe	179/7.1R	1 1
4,292,650	September 29, 1981	Hendrickson	358/123	
4,295,155	October 13, 1981	Jarger et al.	358/12	
4,301,542	November 17, 1981	Weintraub et al.	455/353	
4,305,101	December 8, 1991	Yarbrough et al.	360/69	
4,310,854	January 12, 1982	Baer et al.	358/143	
4,316,217	February 16, 1982	Rifken	358/86	
 4,318,047	March 2, 1982	Dawson 4	328/112	
 4,323,921	April 6, 1982	Guillou 1 Hp.	358/114	
4,323,922	April 6, 1982	den Toonder et al.	358/117	
4,329,711	May 11, 1982	Cheung	358/114	
4,335,426	June 15, 1982	Maxwell et al.	364/200	
4,340,906	July 20, 1982	den Tooder et al.	358/124	11
4,341,925	July 27, 1982	Frosch et al.	178/22.17	
4,343,042	August 3, 1982	Schrock et al.	455/5	71
4,348,696	September 7, 1982	Bejer	358/188	
4,351,028	September 21, 1982	Peddie et al.	364/483	1
4,354,201	October 12, 1982	Sechet et al.	358/122	



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